

**ABSTRACT**

A catalyst dumping device (10) for unloading a catalyst (50) inside a reactor (1), in which smashed used catalyst is thrown into a dumping pipe (11) formed of a plurality of pipe member (12) provided to the reactor (1) to unload to outside of the reactor (1) by fall by dead weight. Accordingly, the catalyst can be unloaded only by throwing the catalyst into the dumping pipe (11), thereby improving work efficiency. Furthermore, no special apparatus such as a vacuum apparatus is unnecessary, thereby reducing cost for the special apparatus.